

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/004204

A. CLASSIFICATION OF SUBJECT MATTER	IPC 7	F04B53/00	F04B53/16	F04B53/08	F04B17/03	F04D29/40
						F04D29/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F04B F04D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 863 312 A (THOMAS INDUSTRIES, INC.) 9 September 1998 (1998-09-09) column 1, line 16 - column 2, line 38 figure 1	17
A	GB 1 132 161 A (BAUS, HEINZ GEORG) 30 October 1968 (1968-10-30) page 1, line 75 - page 2, line 30 page 3, line 50 - line 54 figures 1,2,4,7	1,7-9
A	US 4 597 717 A (TRULINE C.N.C., INC.) 1 July 1986 (1986-07-01) column 9, line 57 - column 10, line 10 column 11, line 45 - column 12, line 2 figures 1,2	1,2,6-9, 17
A	----- ----- ----- ----- -----	1-3,8,9
		-/-

Further documents are listed in continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

10 January 2005

Date of mailing of the international search report

18/01/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 782 738 A (GAST MANUFACTURING CORPORATION) 8 November 1988 (1988-11-08) column 1, line 44 - column 2, line 12 column 2, line 44 - column 3, line 12 figures 1,4 ----- US 4 978 284 A (COOK, J.E. ET AL.) 18 December 1990 (1990-12-18) column 1, line 48 - line 65 column 2, line 8 - column 4, line 19 figures 1-4 -----	1,8,9,17
A		1,8,9,17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004204

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0863312	A	09-09-1998	DE DE EP JP US	69816355 D1 69816355 T2 0863312 A2 10306770 A 5970844 A		21-08-2003 13-05-2004 09-09-1998 17-11-1998 26-10-1999
GB 1132161	A	30-10-1968	DE DE BE CH NL US	1915263 U 1915262 U 676917 A 451455 A 6602409 A 3331304 A		06-05-1965 06-05-1965 18-07-1966 15-05-1968 25-08-1966 18-07-1967
US 4597717	A	01-07-1986	DE GB JP	3335608 A1 2127498 A ,B 59087282 A		05-04-1984 11-04-1984 19-05-1984
US 4782738	A	08-11-1988		NONE		
US 4978284	A	18-12-1990		NONE		